







SAH Clearflow Modifications IGS03-02 WO 03-96032-0

During the Spring outages of 2004 (Unit 2) and 2005 (Unit 1) the Secondary Air Heaters were modified to incorporate the Ljungstrom Air Preheater Clearflow Rotor upgrades. This work included rotor modifications (to accommodate new style heat transfer baskets) and installation of new heat transfer baskets.

The major changes to the SAH was the replacement of 4 layers of heat transfer baskets:

•	Hot End Layer	#22 Ga. "DL" 36" Depth Low Alloy / Corrosion Resistant
•	Hot Intermediate Layer	#22 Ga. "DL" 16" Depth Low Alloy / Corrosion Resistant
•	Cold End Layer	#18 Ga. NF-6 13.5" Depth Low Alloy / Corrosion Resistant
•	Cold Intermediate Layer	#22 Ga. "DL" 9.5" Depth Low Alloy / Corrosion Resistant

With 2 layers:

•	Hot End Layer	#22 Ga. "DL7" 41" Depth Low Alloy / Corrosion Resistant
•	Cold End Layer	#20 Ga. "DL7" 41" Depth Low Alloy / Corrosion Resistant

The other changes require modification to how the baskets are supported and better seals around baskets to reduce leakby. Outside doors were skip welded as side removal is not possible with the 41" tall baskets.

The following drawings were provided new as part of these modifications and can be found in the electronic drawing database:

VENDOR DWG	<u>REV</u>	APCO DWG	DESCRIPTION
62.3401.05-90613	P	65357	GENERAL WELDING SPECIFICATIONS
62.3401.05-90614	0	10041587	HOT & COLD END FLOATING T-BAR INSTALLATION
62.3401.05-90615	Α	10021477	TENSION RING
62.3401.05-90616	0	098856	REFERENCE TABLE
62.3401.05-90617	В	099297	EE-ZEE(TM) BYPASS SEAL FIELD ASS'Y
62.3401.05-90618	0	099502	LIFTING ARRANGEMENT
62.3401.05-90619	Α	10031472	CLEARFLOW ROTOR MODIFICATIONS
62.3401.05-90620	0	10041246	HOT END SEAL CLEARANCE GAUGE ASS'Y
62.3401.05-90621	0	80030674	BASKET ARRANGEMENT
62.3401.05-90622	0	80030675	BASKET SEALING BAR ARRANGEMENT

Relevant drawing to this modification that were not altered:

VENDOR DWG	REV	APCO DWG	DESCRIPTION
62.3401.05-90615	$\overline{\mathbf{A}}$	78077	SEC AIR HEATER RADIAL SEALS ASSEMBLY #3
62.3401.05-90044	0	78075	SEC AIR HEATER AXIAL SEALS ASSEMBLY #1
62.3401.05-90034	Α	935428	SECONDARY AIR HEATER ROTOR ASSEMBLY #1







